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DESCRIPTORS- *TEACHING GUIDES, *TEACHING TECHNIQUES, *QUESTIONING TECHNIQUES, *TEACHING PROCEDURES, *READING INSTRUCTION, TEACHER ROLE,

AN INSTRUCTIONAL BULLETIN FOR WORKSHOP USE TO ASSIST TEACHERS IN DEVELOPING THOUGHT-PROVOKING QUESTIONS IS PRESENTED. DERIVED FROM BLOOM'S "TAXONOMY OF EDUCATIONAL OBJECTIVES" AND "CLASSROOM QUESTIONS--WHAT KIND," THE PUBLICATION ILLUSTRATES THE POSSIBLE USE OF A TAXONOMY OF QUESTIONS IN THE CLASSROOM. FOUR SAMPLE LESSONS ILLUSTRATE EXAMPLES OF QUESTIONS ON THE ADULT LEVEL, THE PRIMER LEVEL, AND ON THE SECOND- AND SIXTH-GRADE LEVELS WHICH MAY BE USED DURING THE INITIAL READING OF MATERIAL, THE DIRECTED REREADING, OR IN THE FOLLOW-UP PERIOD. THE LESSONS INTRODUCE QUESTIONS IN A SEQUENTIAL ORDER OF DIFFICULTY. ANTICIPATED PUPIL RESPONSES ARE GIVEN. REFERENCES ARE INCLUDED. (BK)

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HE ART OF QUESTIONING IN READING

LOS ANGELES CITY SCHOOLS
DIVISION OF INSTRUCTIONAL SERVICES
CURRICULUM BRANCH
INSTRUCTIONAL BULLETIN NO. EC-117

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INTRODUCTION

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Objectives. Both sources present organized classifications of educational objectives and provide examples Prepared to assist teachers in developing thought-provoking questions, this instructional bulletin is based upon <u>Classroom Questions - What Kind?</u>, which was derived from Bloom's <u>Taxonomy of Educational</u> stions which help to accomplish these objectives. of que

Teacher's College Record and a series of related questions have been provided. These materials are included the teacher may understand more fully the mental processes of pupils as they function at the various activities which specifically develop the skills of critical thinking. In addition, an excerpt from the The lessons, each on a different grade level, provide examples of questions that may be used s publication, four sample lessons illustrate the possible use of a taxonomy of questions in the the initial reading of material, the directed re-reading, or in a follow-up or practice perind. ines for teachers are stated in parenthesis. Suggestions will help teachers conduct follow-up of question and response. classroom. so that during In thi levels Guidel

there are many possible responses to each question. Varying responses are to be expected, because questions pupil responses are given as an indication to teachers of what kinds of answers may be expected. In the In addition, anticipated questions involving synthesis and evaluation, creative and imaginative responses should be elicited, as The teacher should encourage divergent thinking esson introduces questions in a sequential order of presumed difficulty. and permit pupils to show the basis for their responses of this type require critical or evaluative reasoning. Each 16

should be exposed to all levels of questioning. It is desirable that teachers consider the ability used in this taxonomy. The value of the exercises lies in helping pupils to examine the thought processes Although some pupils may be better prepared to think critically on the higher levels of the taxonomy, all of individual pupils in conducting class discussions, introducing questions in such a way that the of each pupil is encouraged through practice at all levels of the taxonomy. It is not desirable that teachers, in working with children and in referring to kinds of questioning, teach the labels as that will lead to the successful solution of problems. level o pupils growth

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DEVELOPMENT OF CRITICAL THINKING

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thinking vary among authors; this contributes to uncertainty as teachers evaluate For the elementary school instructional am, critical thinking may be defined as all of the thought processes beyond that of factual recall However, fally every set of educational objectives includes the development of critical thinking. nstructional process to determine pupil skill in this area. itions of critical lemory,"

I. Categories of Thinking

- 1. Memory: The pupil recalls or recognizes information.
- The pupil changes information into a different symbolic form or language. Translation: 7
- definitions, The pupil discovers relationships between facts, generalizations, values, and skills, Interpretation: .
- The pupil solves a lifelike problem that requires the identification of the issue and the selection and use of appropriate generalizations and skills. Application: 4.

- Analysis: The pupil solves a problem through his conscious knowledge of the parts and forms of thirking. S.
- The pupil solves a problem that requires original, creative thinking. Synthesis: ٠,
- served and the appropriateness of specific means for achieving these ends. External evaluations of these involves primarily internal standards of criticism, and is concerned for the most part of evaluation is based on external standards, which derive from "a consideration of the ends to are based primarily on considerations of efficiency, economy, or utility of specific means for A second The pupil makes a judgment of good or bad, or right or wrong, according to Bloom states that standards for evaluation are of two types. with tests for consistancy, logical accuracy, and the absence of internal flaws. designated standards. particular ends."1 Evaluation:

David McKay, 1956), pp. 186-87. (New York: amin S. Bloom (ed.), Taxonomy of Educational Objectives,

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tegories are sequential and cumulative. Each category has unique elements, but it also includes some of the preceding categories, as illustrated in the following chart: The ca aspect

INTERRELATIONSHIPS BETWEEN CATEGORIES OF THINKING

| Memory | Translation | ion Interpretation | Application | Analysis | Synthesis | Evaluation |
|------------------|-------------|--------------------|-------------|----------|-----------|------------|
| Memory | Translation | Interpretation | Application | Analysis | Synthesis | |
| Memory | Translation | Interpretation | Application | Analysis | | |
| Memory | Translation | Interpretation | Application | | | |
| Memory | Translation | Interpretation | | | | |
| Memory | Translation | | | | | |
| 1. Memory Memory | - | | | | | |
| ij | 2. | ຕໍ | 4 | Ŋ | • | 7. |

possible to provide within each level of thinking questions which range from simple to complex; ences are in the complexity rather than in the kind of thinking which occurs. It is differ

II. Principles

the teacher applies the basic principles of good questionsing and avoids the lo facilitate legrning, use of poor practices.

- A. It is desirable that the teacher:
- Be aware that memory questions do not provide stimulation nor opportunity for reflection.
- These may or may Ask questions that are sequential and that naturally follow each other. not be in the order in which they appear in the text.
- Vary the length and difficulty of questions to motivate more capable and less capable pupils to participate. .

n Orenstin, "Tips for Teachers," Chicago School Journal (February, 1965), 214-16. L Alle

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- Encourage pupils to comment concerning what was said, and to ask clarifying questions of each other. 4.
- 5. Allow sufficient time for deliberation.
- Use stimulating questions to involve both Encourage responses from all pupils in the group. the aggressive and the reluctant participant. •
- '. Involve the pupils in evaluating responses to questions.
- Present the objective and the summary of the lesson in question foym, preferably as problems eliciting thoughtful consideration. **∞**
- B. The teacher should not:
- of possible When a pupil is designated in advance, other pupils feel Call the name of the pupil before asking the question to encourage consideration answers by all pupils. "tune out,"
- Use indefinite or vague questions, such as "Find out where John went," ;
- 3. Ask questions which convey the answer.
- When such responses are necessary, questions also should require elaboration in terms of "how" or "why," etc. Use questions which may be answered only with "yes" or "no," 4.
- 5. Ask questions which are not clear and which may confuse pupils.
- the This procedure causes discussion to be teacher-directed and -centered rather than pupil-centered, Furnish answers when pupils should be capable of providing them. •
- 7. Repeat or restate questions asked by pupils.
- Restate answers to questions unless further clarification is needed. φ.
- All pupils Exploit more capable pupils or volumteers to the exclusion of other class members. should be involved, participating at their own levels of competence. 6
- This behavior tends to intimidate the shy or less Allow choral responses or handwaving. capable pupils, 10.
- 11. Accept incomplete or inappropriate answers.

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PRODUCTIVE QUESTIONS*

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If the questions are catalytic to further of behavior might be to ask students when they complete a unit to list as many questions as they can that they their individual inquiries. These newly emerging questions, combined with the data obtained through the study Id provide fuel for further, more sophisticated inquiries. One test of the achievement of this type think would be important for obtaining a fuller understanding of the material they have just studied. Such a develop instructional strategies that elicit important and relevant questions as the students proceed through ents complete a unit of study, let's say, of the medieval period, hopefully just as many questions be scored for the number and quality of the questions, quality being defined by the relevance and inquiry, and there is every reason to believe they are, then it seems that one of the teacher's tasks is to or more would be raised in their minds as when they began the study. of the questions raised. unit, shoul After stud centrality list could

assrooms, teachers themselves raise such questions. These questions, however, are not be to conceived in the classroom are of the questing variety. A student who asks, "Miss Jones, did you say page 237 or 247?" is clearly seeking clarification; he is not questing. But a student who asks, "How did the Crusaders determine their travel routes to the Holy Land?" or "Why didn't the Black Muslims become Black Buddhists?" is opening up such questions are not formulating teaching tactics: rather, their questions often indicate that the This does not mean that all questions raised by students as indications of questing because, in almost all cases, teachers have the answer to the questions they raise. es whet the intellectual appetites of students and are tactical devices in teaching. But students in of inquiry, one that most teachers could use quite profitably with the student and the class. opened rather than closed their curiosity. a new domai In many cla Such queri who raise study has

The questing student, while perhaps not solely motivated by the quest for its by the love of learning. While these, Houle claims, are not pure types, "the central emphasis of each s clearly discernible." The questing student, while perhaps not solely motivated by the quest for its 8). One group consists of those who are goal-oriented and who use their learning as instruments for rather than theoretical ends. A second group consists of those who are activity oriented; they join s probably more closely allied to it than to the other two types. The questing student, then, is colleagues, Cyril Houle, has noted that there are roughly three types of adults who are continuing in determining who will continue to inquire whem the guidance of the teacher is absent, then it is an aspect lous, questioning individual who takes pleasure in wonder and whose desire to learn and experience is motivated more by joy in this activity then by any other motive. If this type of attitude is significant discussion groups primarily to obtain some sort of companionship or participation with others. p, the learning-oriented one, seeks knowledge for its own sake. Their pursuit of knowledge is thinking that should be deliberately nurtured by the school. eager, curi third group subgroup i critica own sake, generated study and One of my practical learners

[&]quot;Critical Thinking: Some Cognitive Components," Teacher's College Record, 66 (April, Reproduced by permission of the author and publisher. Eisner, 28-629. * Elliot W 1965), 63

LEVEL: Adult

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Some Cognitive Components," Eisner, Elliot W., Teacher's College Record, 66 (April, 1965), 628-629. "Critical Thinking; CONTENT:

(This is a practical exercise at the soult level designed to develop concepts of critical thinking.)

| | QUESTIONS | | ANTICIPATED RESPONSES |
|---------------------|---|--|--|
| Memory | 1. Indicate what is one of the teacher's main tasks if the material being studied leads to further inquiry. | 1. Dev imports proceed | 1. Develop instructional strategies that elicit important and relevent questions as the pupils proceed through their individual inquiries. |
| Translation | 2. Differentiate between teacher devised questions for tactical teaching purposes and pupil questions. | 2. The pupils has the | 2. The teacher's purpose is to stimulate the pupils thinking process. The teacher usually has the answer in mind. |
| | | The pup informa fying q used in | The pupil's purpose is a true questing for new information or knowledge unless it is a clarifying question; such as the exact page to be used in the assignment. |
| Interpreta- tion | 3. Relate these questions to the three dif- ferent types of learners described by Houle. | e m | |
| | a. What are the specifics of the Fernald approach to teaching dyslexic children? | • 101 | Goal-oriented |
| | b. What are the similarities and differences between the techniques of Socrates, Kant, and Schweitzer? | ۵ | Learning-oriented |
| | C. How would this hand be bid under the Goren system? | ů | Activity-oriented |

4. Assume that pupils in a given class parallel the adult learners described by Houle. Indicate

Application

what questions could be asked about "The Discovery of Gold at Sutter's Fort" that would chal-

lenge these three types of learners,

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Analysis 5. Explain why it is important to develop within elementary school pupils the ability to think critically about the content of a given subject area.

6. Describe how the process of learning that is pupil-centered is affected by:

.

a. Constant teacher guidance

b. Availability of teacher guidance

c. Lack of teacher guidance

7. Cite what evidence is contained in this article which could lead us to say that questions set up by pupils and teachers for the study of a given book or unit of literature should be continually re-evaluated and reorganized.

5. Last two sentences, Column 1, p. 629.

 a. Is not likely to develop if continued without planning for growth in selfdesire for learning. b. Must be preceded or paralleled by development of the pupil's ability to be selfdirected.

c. Ideally continues without ill-effect if an appropriate background has been developed.

LEVEL: Primer

"A Birthday Cake," The Little White House (Boston: Ginn, 1961), pp. 65-70. CONTENT:

(These questions are intended to be used in the guided re-reading portion of the Directed Reading Lesson. It is assumed that the guided silent reading will have been concluded.)

| | Ţ | | | | | | | | | | | |
|---|--|---------------------------------------|---|---|--|------------|--|---|--|--|---|--|
| TTE TECHTIC TECHT | 1. a. She placed the candles on the cake. | b. "I wili help Motherhere and here." | 2. "I will help Mother." | PONSE IS INCORRECT | h 2, discuss whether these lines tell why Susan placed on by Susan. Questions which will guide this discussion. Both are evaluative in nature. | RES PONSES | 1, "I will help Mother," said Susan. or "Tom likes red candles," | <pre>2. "I will help I will put this I will put candles" (Lines 4-6, p. 68)</pre> | 3. "I will help" | 4. That Tom likes red candles. | 5. How she feels about Tom; that she likes him. | 6. "I will heip Mother," |
| דטונט דר בט מסטייונים ביומר ביום בחדופת | Susan do when she was left the birthday cake? Lena, this question?" | which answer this question. | Read the lines which tell why Susan placed candles on the cake. | CLARIFICATION PROCEDURE WHEN PUPIL RESPONSE | If pupil reads the other lines in paragraph 2, discuss the candles, or whether they describe action by Susan. and anticipated responses are listed below. Both are | IONS | graph on page 68 to deter- st tells why Susan placed | Read the sentences that tell what Susan did. | Now, read the sentence which tells that an wanted to do something for her mother. | on page | "Does this sentence tell you about the n feels toward Tom, or does it tell why ed the candles on the cake?" | the last paragraph that best the candles on the cake. |
| SWOTHOUSE | l. a. Ask, "What did s alone in the room with will you please answer | b. Read the lines which | 2. the | CLARIF | If pupil reads the other lines in paragrapl the candles, or whether they describe actionand anticipated responses are listed below | QUESTIONS | 1. Read the last paragraph on page 68 mine which sentence best tells why Suscandles on the cake. | 2. Read the sentences | 3. Now, read the sentence which Susan wanted to do something for | 4. Ask, "What does the last sentence 68 tell you?" | 5. Ask, "Does this sentence tell you way Susan feels toward Tom, or does she placed the candles on the cake?" | 6. Read the lines in t tell why Susan placed |
| | | | ron You | | | | | | | | | |

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Interpreta- 3. Ask, "How did it happen that Susan was left tion alone with the cake?"

Application 4. Ask, "Had Susan really helped her mother?"

Read the lines in the story which caused you to reply as you did.

lysis 5. Ask, "How might Susan have acted differently had she known the meaning of each candle?"

6. a. Ask, "Why was it that her mother did not punish Susan for what she did?"

Evaluation

b. Ask, "Why was it that her mother did not let Susan have her way?"

3. Mother was called by Betty to answer the door.

4. No. "Tom is seven. He will want seven candles." (Lines 4, 5, p. 70)

5. She might have spent more time counting the candles to see how many were already on the cake before putting on more. Or...

6. 3. Her mother realized that Susan did not understand the meaning of the candles.

b. It was more important to have the correct number of candles on the cake than for Susan to have her way, because Tom would have been disappointed if the number were incorrect.

Grade Two LEVEL:

Town and Country, (Boston: Allyn and Bacon, 1961), pp. 160-162. "Ranch Life," CONTENT:

They can motivate the reading of passages, or be assigned to various pupils if a selection is to be read without interruption.) (These questions are to be introduced early in the Directed Reading Lesson.

| | OUESTIONS | ANTICI DA TED DIDIT DECENSES |
|---------------------|---|--|
| Memory | 1. Read to learn the names of Jack's and Nancy's horses. | i. Jack's horse is named Blackie. Nancy's horse is named Lucky. |
| Translation | 2. Ask, "What do you call a place where norses are kept?" Read to find the word that you think names this place. | 2. A place where horses are kept is called a corral. |
| Interpreta- tion | 3. Ask, "How would a horse show that he was friendly?" Read the first two pages to find a sentence which tells how Nancy's horse showed that he was friendly. | 3. He put his head in her hand. |
| Application | 4. Ásk, "How did your pet receive its name? How many of our pets receive their names?" Read the first two pages to find out what a good name might be for Uncle Jim's horse. | 4. Children will respond with a variety of answers. Pets are named by colors or some other distinguishing characteristic. Spot, Paint, Checkers |
| Analysis | 5. Ask, "What makes a happy day for you?" Read the first two pages to find why this was a happy day for Jack and Nancy. | 5. Children will respond with a variety of reasons. It is their birthday. It is the first day on the ranch. They may go horsebackriding. Each has his own horse. |
| Synthesis | 6. Ask, "What kind of a day do you think Nancy and Jack will have at the ranch?" Read the first two pages to find whether your own answer is correct. | Fupils will suggest various ideas such as happy, exciting, interesting, busy. |
| Evaluation | 7. a. Ask, 'What would be a happy day for you?" | 7. a. List briefly those event that would make a happy day for pupils. |

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List briefly the events from the story that pupils believe show that Jack and Nancy have a happy day.

"What happens in the story that you

Ask,

day?"

believe shows that Jack and Nancy have a happy

LEVEL: Fourth Grade

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"Quiet Boy," Believe and Make-Believe, (Boston: Allyn and Bacon, 1961), pp. 260-262. CONTENT:

be-(These questions are intended to be used as individual practice activities (follow-up) develop the comprehension skill of critical reading. "Memory" questioning is omitted Refer to Reading Follow-up Activities Grade Four, Part Two (based on Believe and Make-Believe), Los cause it is adequately covered in the prepared follow-up materials.

Angeles City Schools Instructional Bulletin No. EC-56, p. 64.)

ANTICIPATED PUPIL RESPONSES QUESTIONS See above notation.

Write your answer in How do you think Quiet Boy felt about waiting for his family? a short sentence. **Translation**

Quiet Boy did not mind waiting, as he was used

3. What are some ways in which Quiet Boy List at least three. earned his name? Interpreta-

said nothing when Lester made fun of him. said nothing after the fight with Lester. remained quiet on the trip home. He waited quietly for his family. He ຕໍ

> 4. How do you think Quiet Boy would act if he situations? Write short sentences describing were a member of our class in the following

he 4. If Quiet Boy were a member of our class, might:

> what might occur in each situation. a. A classroom discussion

be polite to others; not participate enough, speak softly; listen carefully to others.

> A quarrel on the playground þ.

be very fair; stay on the job; listen to avoid a fight; not argue when provoked; listen to the other person. ວໍ þ.

As a school safety monitor ပံ

both sides.

Quiet Boy is patient and well-mannered. What kind of boy is Quiet Boy? Write sentences to support this topic sentence:

Pupils may write the following supporting sentences:

He wanted to work on the farm but stayed in He waited for his family patiently. school.

remained silent when Lester spoke to him.

| chinking | |
|-----------|--------|
| | |
| Boy be | |
| Quiet | home? |
| might (| trip 1 |
| What | n the |
| a. | at on |
| 6. a. | about |
| Synthesis | |

Encourage a variety of responses to en-

courage divergent thinking.

•

document his response.

Ask each pupil to

(To develop background for responses, pupils may discuss such topics as what Quiet Boy might be thinking: while waiting for his family; when Lester first spoke to him; when his father pulled him away from Lester.)

b. Write a short paragraph about his thoughts on the way home.

ion 7. a. What character traits does Quiet Boy show by his actions in the story?

b. Pupil's written paragraph.

7. a. List Quiet Boy's traits as they are suggested by pupils. Accept all responses without challenge.

Possible responses:

Patience Kindness
Honesty Self-Control
Truthfulness Obedience
Responsibility

b. List evidence of Quiet Boy's traits taken from the story.

Suggested Traits Action, Statement or thought

Patience He waited quietly for his family.

He did not respond to Lester.

He waited in the wagon.

Honesty No evidence.

Truthfulness No evidence.

Responsibility He wanted to work on the farm when needed.

Kindness He did not want to injure an animal.

Self-Control He held his temper when Lester teased him.

Obedience He went to school because his father asked him to go.

b. Describe, in a few words, evidence found in the story that, in your judgement, shows one of the traits we listed. If you find no evidence of the trait given, write 'No evidence."

LEVEL: Sixth Grade

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using the suffixes: al, ic, ical, age, and ive. This sample lesson may be used in conducting a total-group activity for initial development or review of this particular skill. Trade books or other readers may be used, in addition to Wings to Adventure. (These questions are intended to be used in the development of structural analysis skills, 156-168. (Boston: Ginn, 1961). pp. "Hill Farm in New England," Wings to Adventure, CONTENT:

| | OTTEGETTONG | 1 | 1010101 | |
|---------------------|---|----------|-------------------------------|---|
| | COEST TOWS | ¥ | NI ICIE | ANTICIPATED FUPIL RESPONSES |
| Memory | l. Ask, "What is the meaning of the suffixes in the following words? John, will you please list them on the board as the meanings are given." | • | | |
| | rehearsal heroic electrical shrinkage defensive | • • • • | act of or having the re | act of a person or thingof or belonging tohaving to do withthe result of. |
| Translation | 2. Ask, "Which of these words (typical; metalic; natural) have the following meaning?" | • | | |
| | a. like metalb. of a typec. characteristic of nature | 4 to 0 | metalic typical natural | ic al al |
| Interpreta- tion | 3. Write these four meanings for the suffix age on the chalkboard: (1) the act or process of; (2) the result of; (3) the total amount of; and (4) the fee charged for. Ask pupils to write the appropriate meaning beside each of the under- lined words in these sentences: | • | | |
| | a. The acreage extended for miles. b. The postage was 60¢. c. There was little shrinkage in the value of the dollar this year. | ပီ ငံ စီ | ££. | the total amount of. the fee charged for. the result of. |
| | d. The passage included meals. e. We forgot to figure the mileage in our plans. | ф. е. | (6); | (4), the fee charged for. (3), the total amount of. |

4. List these meanings of some suffixes and examples of words that contain them on the chalkboard.

÷

Of or characteristic of The act of a person or thing (a1) -al 8 þ,

rehearsal refusal

> is likely Having the nature or That may or quality of (iv) -ive a. ф.

attractive defensive

> Of or belonging to Having to do with Coming from (ik) -ic a.

Like

ວ þ.

dramatic heroic

"How do the definitions of the suffixes help you to understand the meanings of words that contain the suffixes? Paul, will you answer the question." Ask,

Say, "Skim through your library books to find words which contain one of the suffixes listed. Let's make a list of these words and of the meanings that you suggest?"

found; then tell us what the word Mary, read the sentence you have is, which suffix you used, and the root form of the word,

If we know the meaning of the root word and the suffix, the two meanings can definition of the ..sw word. the be combined in the meaning of

Pupils will respond with words which they find. They will apply the idea and state the meaning of each word.

Analysis 5. Ask,

5. Ask, "Which of the words below contain <u>ic</u> as a suffix? Which contain it as part of the root? Write the words under the proper heading."

panic electronic telegraphic

Part of the root
A suffix
A suffix
Part of the root

Synthesis

music comic 6. Ask, "How does the addition of one of the suffixes listed on the chalkboard (al, ic, ical, age, ive) change the meanings of these words? Write a sentence using each word given. Write a second sentence using the derived form of the word."

6. Pupils may suggest such statements as the following:

shrink

rehearse electric

Clothing often will <u>shrink</u> when washed.

A <u>shrinkage</u> in the value of the dollar was reported.

Etc.

luation 7. a. Ask, "What changes are made by the addition
 of a suffix to a root in the following examples?"

changed. The pronunciation, including the accent,

may be changed.

a.

The meaning is changed. The spelling is

acre - acreage metal - metalic defend - defensive b. Ask, "What are some examples of words with suffixes that you think would be difficult for sixth-grade pupils? Try to find examples of each kind of change brought about by the use of a suffix, and identify the change."

b. Pupils will find examples of words with suffixes that they think would be difficult for sixth-graders, write both the root and the derived, form and specify the changes.

patriot - patriotic There are changes in pronunciation, accent, and meaning.